IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Michael L. Boyer II et al.

Application No.: Unassigned Group Art Unit: 3732 (expected)

Examiner: Priddy, M. (expected) Filed: Herewith

For: DEMINERALIZED BONE IMPLANTS Attorney Docket No.: 8932-872

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents PO Box 1459 Alexandria, Virginia 22313-1450

Sir:

Pursuant to Applicants' duty of disclosure under 37 C.F.R. § 1.56, Applicants hereby invite the Examiner's attention to the 78 references listed on the enclosed revised Form PTO-1449.

This application relies on the earlier filing date of U.S. Application No. 09/927,335. The references listed on the revised Form PTO-1449 were previously cited by the Patent Office or submitted by Applicants in the prior application. It is believed that the Examiner already has copies of the references, but copies will be provided if requested. It is respectfully requested that these references be made of record in this application by the Examiner's completion and return of the revised Form PTO-1449.

No fee is believed to be due for this submission, since this Information Disclosure Statement is being submitted before the first office action. Should any fees be required, however, please charge the required fees to Pennie & Edmonds Deposit Account No. 16-1150.

Date Movember 24, 2003

Respectfully submitted

Seth A. Watkins

Reg. No. 47,169

Brian M. Rothery For:

Reg. No. 35,340

PENNIE & EDMONDS LLP

1667 K Street, N.W. Washington, DC 20006 (202) 496-4400

Enclosures

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

ATTY, DOCKET NO.	APPLICATION NO.					
8932-872	Unassigned					
APPLICANT						
M. Boyer II et al.						
FILING DATE	GROUP					
Herewith	3732 (expected)					

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	US 2002/0120347 A1	08/2002	Boyer II et al.	623	23.63	
	АВ	US 2002/0107570 A1	08/2002	Sybert et al.	623	13.17	
	AC	US 2002/0106393 A1	08/2002	Bianchi et al.	424	423	
	AD	US 2002/0091477 A1	07/2002	Shimp et al.	623	17.16	
	AE	US 2001/0039458 A1	11/2001	Boyer II et al.	623	23.63	
	AF	US 2001/0014831 A1	08/2001	Scarborough	623	23.51_	
	AG	US 2001/0010021 A1	07/2001	Boyd et al.	623	17.13	
	АН	6,458,158 B1	10/2002	Anderson et al.	623	16.11	
	Al	6,432,436 B1	08/2002	Gertzman et al.	424	423	
	AJ	6,425,920 B1	07/2002	Hamada	623	17.16	
	AK	6,294,187 B1	09/2001	Boyce et al.	424	422	
	AL	6,277,149 B1	08/2001	Boyle et al.	623	17.16	
	AM	6,264,695 B1	07/2001	Stoy	623	17.16	
	AN	6,206,923 B1	03/2001	Boyd et al.	623	17.11	
	AO	6,200,347 B1	03/2001	Anderson et al.	623	16.11	
	AP	6,143,030	11/2000	Schroder	623	16.11	
	AQ	6,123,731	09/2000	Boyce et al.	623	23.63	
	AR	6,110,482	08/2000	Khouri et al.	424	423	
	AS	6,090,998	07/2000	Grooms et al.	623	16	
	AT	6,049,025	04/2000	Stone et al.	623	16	
_	AU	6,013,853	01/2000	Athanasiou et al.	623	11	
	AV	6,005,161	12/1999	Brekke et al.	623	16	
	AW	5,997,581	12/1999	Khalili	623	23	
	AX	5,997,580	12/1999	Mastrorio et al.	623	22	
	AY	5,989,289	11/1999	Coates et al.	623	17	
	AZ	5,944,755	08/1999	Stone	623	16	<u></u>
	ВА	5,922,027	07/1999	Stone	623	11	
	ВВ	5,904,716	05/1999	Gendler	623	11	
	вс	5,902,338	05/1999	Stone	623	13	
	BD	5,899,939	05/1999	Boyce et al.	623	16.11	
	BE	5,888,222	03/1999	Coates et al.	623	17	
	BF	5,876,452	03/1999	Athanasiou et al.	623	16	

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR	3 DA
	BG	5,865,849	02/1999	Stone	623	18		
_	вн	5,782,915	07/1998	Stone	623	11		
	ВІ	5,733,288	03/1998	Allen	606	79		
	вл	5,728,159	03/1998	Stroever et al.	623	16		
	вк	5,607,474	03/1997	Athanasiou et al.	623	11		
	BL	5,569,308	11/1996	Sottosanti	623	165		
	вм	5,556,430	09/1996	Gendler	623	16		
	BN	5,549,679	08/1996	Kuslich	623	17		
	во	5,545,222	08/1996	Bonutti	623	11	L	
	ВР	5,507,813	04/1996	Dowd et al.	623	16		
	BQ	5,464,439	11/1995	Gendler	623	16		
•	BR	5,439,684	08/1995	Prewett et al.	424	422		
-	BS	5,306,304	04/1994	Gendler	623	16		
	вт	5,298,254	03/1994	Prewett et al.	424	422		
	BU	5,284,655	02/1994	Bogdansky et al.	424	422		
	в۷	5,258,043	11/1993	Stone	623	66		
	вw	5,053,049	10/1991	Campbell	623	16		
	вх	4,994,084	02/1991	Brennan	623	11		
	BY	4,627,853	12/1986	Campbell et al.	623	16		
	-		FOR	EIGN PATENT DOCUMENTS	-			
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS	SLA
							YES *abstract only	L
	BZ	EP 0 505 634 A1	09/1992	EPO			Х	L
	CA	SU 1465040 A1	03/1989	Soviet Union			X*	L
	СВ	WO 00/59412	10/2000	PCT			Х	
	СС	WO 00/40179	07/2000	PCT			Х	Ĺ
	CD	WO 00/40177	07/2000	PCT			Х	
	CE	WO 00/30568	06/2000	PCT		1	Х	
	CF	WO 00/07528	02/2000	PCT			Х	
	CG	WO 00/07527	02/2000	PCT			х	ſ
	СН	WO 99/38461	08/1999	PCT			Х	ſ
	CI	WO 98/55053	12/1998	PCT			х	
**	cu	WO 97/20526	06/1997	PCT			Х	ſ
	СК	WO 96/11642	04/1996	РСТ			Х	ſ
								Г

•	OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
CL	Kai-Uwe Lewandrowski, "Improvement of Incorporation of Bone Allografts," CRISP grant abstract, Fiscal Year 2000.			
СМ	Joseph Catanese III et al., "Heterogeneity of the mechanical properties of demineralized bone," <i>Journal of Biomechanics</i> , Vol. 32, pp. 1365-1369, 1999.			
CN	Kai-Uwe Lewandrowski et al., "Mechanical Properties of Perforated and Partially Demineralized Bone Grafts," Clinical Orthopaedics and Related Research, No. 353, pp. 238-246, 1998.			
со	Kai-Uwe Lewandrowski et al., "Improved Osteoinduction of Cortical Bone Allografts: A Study of the Effects of Laser Perforation and Partial Demineralization," <i>Journal of Orthopaedic Research</i> , Vol. 15, pp. 748-756, 1997.			
СР	Kai-Uwe Lewandrowski et al., "Kinetics of cortical bone demineralization: Controlled demineralization - a new method for modifying cortical bone allografts," <i>Journal of Biomedical Materials Research</i> , Vol. 31, pp. 365-372, 1996.			
ca	Douglas W. Jackson et al., "Biologic Remodeling after Anterior Cruciate Ligament Reconstruction Using a Collagen Matrix Derived from Demineralized Bone," <i>American Journal of Sports Medicine</i> , Vol. 24, pp. 405-414, 1996.			
CR	Kai-Uwe Lewandrowski et al., "Flexural Rigidity in Partially Demineralized Diaphyseal Bone Grafts," Clinical Orthopaedics and Related Research, No. 317, pp. 254-262, 1995.			
cs	J.J. Broz et al., "Material and Compositional Properties of Selectively Demineralized Cortical Bone," <i>J. Biomechanics</i> , Vol. 28, pp. 1357-1368, 1995.			
ст	Howard S. An et al., "Comparison Between Allograft Plus Demineralized Bone Matrix Versus Autograft in Anterior Cervical Fusion. A Prospective Multicenter Study," SPINE, Vol. 20, pp. 2211-2216, 1995.			
cu	Norbert Kübler et al., "Osteoinductive, Morphologic, and Biomechanical Properties of Autolyzed, Antigen- Extracted, Allogeneic Human Bone," <i>J. Oral Maxillofac. Surg.</i> , Vol. 51, pp. 1346-1357, 1993.			
cv	CV S. M. Tuli et al., "The Osteoinductive Property of Decalcified Bone Matrix. An Experimental Study," The Journal of Bone and Joint Surgery, Vol. 60-B, pp. 116-123, 1978.			
cw	CW Marshall R. Urist, "Surface-Decalcified Allogeneic Bone (SDAB) Implants. A Preliminary Report of 10 Cases and 25 Comparable Operations With Undecalcified Lyophilized Bone Implants.," Clinical Orthopaedics and Related Research, No. 56, pp. 37-50, 1968.			
сх	Fred H. Albee, <i>Bone Graft Surgery in Disease, Injury and Deformity</i> , D. Appleton-Century Company, Inc., New York, 1940, pp. 30, 65-67, 114, 151, 155, 164, 212, 256-257, 270-273, 311-313.			
CY	Fred H. Albee, "Bone Surgery With Machine Tools," Scientific American, April, 1936, pp. 178-181.			
cz				
EXAMINER	DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.